## **AMENDMENTS TO THE CLAIMS**

This listing of claims will replace all prior versions and listings of claims in the application:

## **LISTING OF CLAIMS:**

1. (original): A uracil-requiring gene-disrupted yeast wherein URA3 gene of chromosomal DNA is disrupted by the homologous recombination with a URA3 DNA fragment.

2. (original): A histidine-requiring gene-disrupted yeast
wherein HIS5 gene of chromosomal DNA is disrupted by the homologous
recombination with an HIS5 DNA fragment.

3. (original): An adenine- and uracil-requiring gene-disrupted yeast wherein ADE1 gene and URA3 gene of chromosomal DNA are disrupted by the homologous recombination with an ADE1 DNA fragment and URA3 DNA fragment.

4. (original): An adenine- and histidine-requiring gene-disrupted yeast wherein ADE1 gene and HIS5 gene of chromosomal DNA are disrupted by the homologous recombination with an ADE1 DNA fragment and HIS5 DNA fragment.

5. (original): A uracil- and histidine-requiring gene-disrupted yeast

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wherein URA3 gene and HIS5 gene of chromosomal DNA are disrupted by the homologous recombination with a URA3 DNA fragment and HIS5 DNA fragment.

6. (original): An adenine-, uracil- and histidine-requiring gene-disrupted yeast wherein ADE1 gene, URA3 gene and HIS5 gene of chromosomal DNA are disrupted by the homologous recombination with an ADE1 DNA fragment, URA3 DNA fragment and HIS5 DNA fragment.

7. (currently amended): The gene-disrupted yeast according to Claim 1 any one of Claims 1 to 6,

wherein the yeast is one belonging to the genus <u>Candida</u>, the genus <u>Clavispora</u>, the genus <u>Cryptococcus</u>, the genus <u>Debaryomyces</u>, the genus <u>Lodderomyces</u>, the genus <u>Metschnikowia</u>, the genus <u>Pichia</u>, the genus <u>Rhodosporidium</u>, the genus <u>Rhodotorula</u>, the genus <u>Sporidiobolus</u>, the genus <u>Stephanoascus</u>, or the genus <u>Yarrowia</u>.

8. (currently amended): The gene-disrupted yeast according to Claim 1 any one of Claims 1 to 6,

wherein the yeast belongs to the genus Candida.

9. (currently amended): The gene-disrupted yeast according to <u>Claim 1 any one of Claims 1 to 6</u>,

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wherein the yeast is the <u>albicans</u> species, <u>ancudensis</u> species, <u>atmosphaerica</u> species, <u>azyma</u> species, <u>bertae</u> species, <u>blankii</u> species, <u>butyri</u> species, <u>conglobata</u> species, <u>dendronema</u> species, <u>ergastensis</u> species, <u>fluviatilis</u> species, <u>friedrichii</u> species, <u>gropengiesseri</u> species, <u>haemulonii</u> species, <u>incommunis</u> species, <u>insectrum</u> species, <u>laureliae</u> species, <u>maltosa</u> species, <u>melibiosica</u> species, <u>membranifaciens</u> species, <u>mesenterica</u> species, <u>natalensis</u> species, <u>oregonensis</u> species, <u>palmioleophila</u> species, <u>parapsilosis</u> species, <u>pseudointermedia</u> species, <u>quercitrusa</u> species, <u>rhagii</u> species, <u>rugosa</u> species, <u>saitoana</u> species, <u>sake</u> species, <u>schatavii</u> species, <u>sequanensis</u> species, <u>shehatae</u> species, <u>sorbophila</u> species, <u>tropicalis</u> species, <u>valdiviana</u> species, or <u>viswanathii</u> species of the genus <u>Candida</u>.

10. (currently amended): The gene-disrupted yeast according to Claim 1 any one of Claims 1 to 6,

wherein the yeast is Candida maltosa.

- 11. (original): The URA3 gene-disrupted yeast according to Claim 1 which is <u>Candida maltosa</u> U-35 (FERM P-19435).
- 12. (original): The HIS5 gene-disrupted yeast according to Claim 2 which is <u>Candida maltosa</u> CH-I (FERM P-19434).
- 13. (original): The ADE1 gene- and URA3 gene-disrupted yeast according to Claim 3

which is Candida maltosa UA-354 (FERM P-19436).

14. (original): The ADE1 gene- and HIS5 gene-disrupted yeast according to Claim 4 which is <u>Candida maltosa</u> AH-I5 (FERM P-19433).

15. (original): The URA3 and HIS5 gene-disrupted yeast according to Claim 5 which is <u>Candida maltosa</u> HU-591 (FERM P-19545).

16. (original): The ADE1 gene-, URA3 gene- and HIS5 gene-disrupted yeast according to Claim 6,

which is Candida maltosa AHU-71 (FERM BP-10205).

17. (currently amended): A transformant of the gene-disrupted yeast according to <u>Claims</u>

<u>1any one of Claims 1 to 16</u>,

which is transformed with a DNA sequence containing an isogene or heterogene.

18. (original): A process for producing a gene expression product

which comprises harvesting an expression product of an isogene or heterogene from a cultured product obtainable by culturing the transformant according to Claim 17.

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19. (original): The process for producing a gene expression product according to Claim

18,

wherein the gene expression product is a polyester.

20. (original): A yeast transformant

which is introduced with a polyhydroxyalkanoic acid synthase gene and an acetoacetyl CoA reductase gene, and both or either of these genes being introduced in 2 or more copies.

21. (original): The yeast transformant according to Claim 20,

wherein a peroxisome-targeting signal is added to a polyhydroxyalkanoic acid synthase gene and an acetoacetyl CoA reductase gene.

22. (currently amended): The yeast transformant according to Claim 20 or 21, wherein a promoter and terminator functioning in yeast are connected to a polyhydroxyalkanoic acid synthase gene and acetoacetyl CoA reductase gene.

23. (currently amended): The yeast transformant according to Claim 20 any one of Claims 20 to 22,

wherein the yeast belongs to the genus Candida.

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24. (currently amended): The yeast transformant according to Claim 20 any one of Claims 20 to 22.

wherein the yeast is the <u>albicans</u> species, <u>ancudensis</u> species, <u>atmosphaerica</u> species, <u>azyma</u> species, <u>bertae</u> species, <u>blankii</u> species, <u>butyri</u> species, <u>conglobata</u> species, <u>dendronema</u> species, <u>ergastensis</u> species, <u>fluviatilis</u> species, <u>friedrichii</u> species, <u>gropengiesseri</u> species, <u>haemulonii</u> species, <u>incommunis</u> species, <u>insectrum</u> species, <u>laureliae</u> species, <u>maltosa</u> species, <u>melibiosica</u> species, <u>membranifaciens</u> species, <u>mesenterica</u> species, <u>natalensis</u> species, <u>oregonensis</u> species, <u>palmioleophila</u> species, <u>parapsilosis</u> species, <u>pseudointermedia</u> species, <u>quercitrusa</u> species, <u>rugosa</u> species, <u>saitoana</u> species, <u>sake</u> species, <u>schatavii</u> species, <u>sequanensis</u> species, <u>shehatae</u> species, <u>sorbophila</u> species, <u>tropicalis</u> species, <u>valdiviana</u> species, or <u>viswanathii</u> species of the genus <u>Candida</u>.

25. (currently amended): The yeast transformant according to <u>Claim 20any one of Claims 20 to 22</u>.

wherein the yeast is Candida maltosa.

26. (currently amended): The yeast transformant according to <u>Claim 20any one of Claims 20 to 25</u>,

wherein the polyhydroxyalkanoic acid synthase gene codes for an enzyme or mutant derived from <u>Aeromonas caviae</u> having the amino acid sequence shown under SEQ ID No:5.

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27. (original): The yeast transformant according to Claim 26,

wherein the polyhydroxyalkanoic acid synthase gene derived from <u>Aeromonas caviae</u> codes for a polyhydroxyalkanoic acid synthase mutant obtainable by applying at least one of the following amino acid substitutions from (a) to (h);

- (a) substitution of Ser for Asn-149
- (b) substitution of Gly for Asp-171
- (c) substitution of Ser or Gln for Phe-246
- (d) substitution of Ala for Tyr-318
- (e) substitution of Ser, Ala or Val for Ile-320
- (f) substitution of Val for Leu-350
- (g) substitution of Thr, Ser or His for Phe-353
- (h) substitution of Ile for Phe-518.

28. (currently amended): The yeast transformant according to Claim 20any one of Claims 20 to 27,

wherein the acetoacetyl CoA reductase gene codes for an enzyme or mutant derived from Ralstonia eutropha having the amino acid sequence shown under SEQ ID NO:6.

29. (currently amended): The yeast transformant according to Claim 20 any one of Claims 20 to 28,

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wherein the polyhydroxyalkanoic acid is a copolymer obtainable by copolymerizing 3-hydroxyalkanoic acid represented by the following general formula (1);

[Chemical 1]

$$\begin{array}{c} R \\ | \\ HO-CH-CH_2-C-OH \\ | \\ | \\ O \end{array}$$
 (1)

in the formula, R represents an alkyl group having 1 to 13 carbon atoms.

30. (currently amended): The yeast transformant according to Claim 20any one of Claims 20 to 28,

wherein the polyhydroxyalkanoic acid is a copolyester obtainable by copolymerizing 3-hydroxybutyric acid represented by the following general formula (2) and 3-hydroxyhexanoic acid represented by the following general formula (3).

[Chemical 2]

$$CH_3$$
  
 $HO-CH-CH_2-C-OH$  (2)

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[Chemical 3]

$$_{\text{HO--CH---CH}_{2}\text{---COH}}^{\text{C}_{3}\text{H}_{7}}$$

31. (currently amended): A process for producing a polyester using the yeast transformant according to Claim 20any one of Claims 20 to 30,

which comprises harvesting a polyester from a cultured product obtainable by culturing said yeast transformant.

32. (currently amended): A method for controlling the molecular weight of a polyester in producing a polyester using the yeast transformant according to <u>Claim 20</u> any one of <u>Claims 20</u> to 30,

which comprises controlling the number of acetoacetyl CoA reductase gene in the yeast transformant.

33. (currently amended): A method for controlling a hydroxyalkanoic acid composition of a polyester in producing a polyester using the yeast transformant according to <u>Claim 20any</u> one of Claims 20 to 30,

which comprises controlling the number of a polyhydroxyalkanoic acid synthase gene in the yeast transformant.

34. (original): A method for recovering a selective marker

which comprises carrying out the intramolecular homologous recombination in <u>Candida</u> maltosa having ADE1 gene as a selective marker gene to remove said ADE1 gene.

35. (original): The method for recovering a selective marker according to Claim 34, wherein a part of ADE1 gene is ligated to the upstream or downstream of ADE1 gene.

36. (currently amended): The method for recovering a selective marker according to Claim 34-or-35,

wherein ADE1 gene has the base sequence shown under SEQ ID NO:7.